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NEWS  1          Web Page URLs for STN Seminar Schedule - N. America
NEWS  2          "Ask CAS" for self-help around the clock
NEWS  3  FEB 28  PATDPAFULL - New display fields provide for legal status
                 data from INPADOC
NEWS  4  FEB 28  BABS - Current-awareness alerts (SDIs) available
NEWS  5  MAR 02  GBFULL: New full-text patent database on STN
NEWS  6  MAR 03  REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS  7  MAR 03  MEDLINE file segment of TOXCENTER reloaded
NEWS  8  MAR 22  KOREAPAT now updated monthly; patent information enhanced
NEWS  9  MAR 22  Original IDE display format returns to REGISTRY/ZREGISTRY
NEWS  10 MAR 22  PATDPASPC - New patent database available
NEWS  11 MAR 22  REGISTRY/ZREGISTRY enhanced with experimental property tags
NEWS  12 APR 04  EPFULL enhanced with additional patent information and new
                 fields
NEWS  13 APR 04  EMBASE - Database reloaded and enhanced
NEWS  14 APR 18  New CAS Information Use Policies available online
NEWS  15 APR 25  Patent searching, including current-awareness alerts (SDIs),
                 based on application date in CA/CAplus and USPATFULL/USPAT2
                 may be affected by a change in filing date for U.S.
                 applications.
NEWS  16 APR 28  Improved searching of U.S. Patent Classifications for
                 U.S. patent records in CA/CAplus
NEWS  17 MAY 23  GBFULL enhanced with patent drawing images
NEWS  18 MAY 23  REGISTRY has been enhanced with source information from
                 CHEMCATS
NEWS  19 JUN 06  The Analysis Edition of STN Express with Discover!
                 (Version 8.0 for Windows) now available
NEWS  20 JUN 13  RUSSIAPAT: New full-text patent database on STN
NEWS  21 JUN 13  FRFULL enhanced with patent drawing images
NEWS  22 JUN 27  MARPAT displays enhanced with expanded G-group definitions
                 and text labels
NEWS  23 JUL 01  MEDICONF removed from STN
NEWS  24 JUL 07  STN Patent Forums to be held in July 2005
NEWS  25 JUL 13  SCISEARCH reloaded
NEWS  26 JUL 20  Powerful new interactive analysis and visualization software,
                 STN AnaVist, now available

NEWS EXPRESS  JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT
              MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
              AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

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FILE 'HOME' ENTERED AT 10:29:34 ON 04 AUG 2005

=> file medline biosis embase caplus
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                 0.21       0.21
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FILE 'MEDLINE' ENTERED AT 10:29:49 ON 04 AUG 2005

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=> s persistant (s) sodium (s) channel (s) block? (s) screen?
L1            0 PERSISTANT (S) SODIUM (S) CHANNEL (S) BLOCK? (S) SCREEN?

=> s persistant (s) sodium (s) channel (s) block?
L2            0 PERSISTANT (S) SODIUM (S) CHANNEL (S) BLOCK?

=> s persistant (s) sodium (s) channel (s) current
L3            0 PERSISTANT (S) SODIUM (S) CHANNEL (S) CURRENT

=> s persistent (s) sodium (s) channel (s) current
L4          209 PERSISTENT (S) SODIUM (S) CHANNEL (S) CURRENT

=> s persistent (s) sodium (s) channel (s) block? (s) screen?
L5            0 PERSISTENT (S) SODIUM (S) CHANNEL (S) BLOCK? (S) SCREEN?

=> s persistent (s) sodium (s) channel (s) block? (s) current?
L6           22 PERSISTENT (S) SODIUM (S) CHANNEL (S) BLOCK? (S) CURRENT?

=> dup rem l6
PROCESSING COMPLETED FOR L6
L7            12 DUP REM L6 (10 DUPLICATES REMOVED)

=> d l7 total ibib kwic

L7   ANSWER 1 OF 12  CAPLUS  COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:         2005:216665  CAPLUS
DOCUMENT NUMBER:          142:274048
TITLE:                    Using selective antagonists of persistent sodium
                          current to treat neurological disorders and pain
INVENTOR(S):              Ehring, George R.; Adorante, Joseph S.; Donello, John
                          E.; Malone, Thomas; Wheeler, Larry A.; Whitcup, Scott
                          M.
PATENT ASSIGNEE(S):       Allergan, Inc., USA
SOURCE:                   PCT Int. Appl., 125 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   2
PATENT INFORMATION:

     PATENT NO.           KIND   DATE        APPLICATION NO.         DATE
     --------------       ----   --------    --------------------    --------
     WO 2005020982         A2    20050310    WO 2004-US28077         20040827
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
             CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
             GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
             LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
             NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
             TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
             AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
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EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2005054695 A1 20050310 US 2004-928949 20040827
PRIORITY APPLN. INFO.: US 2003-498900P P 20030829
US 2003-498902P P 20030829

OTHER SOURCE(S): MARPAT 142:274048

IT Analgesics
Anti-inflammatory agents
Anti-ischemic agents
Antiarthritics
Anticonvulsants
Antiglaucoma agents
Arthritis
Autoimmune disease
Connective tissue, disease
Epilepsy
Eye, disease
Glaucoma (disease)
Human
Hypoxia
Inflammation
Ischemia
Movement disorders
Nervous system, disease
Nervous system agents
Neuromuscular diseases
Pain
Sodium channel blockers
(**persistent sodium current** antagonists
for treatment of neurol. disorders and pain)

L7 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2005:185393 CAPLUS
DOCUMENT NUMBER: 142:254638
TITLE: Treating chronic pain using selective antagonists of persistent sodium current
INVENTOR(S): Ehring, George R.; Adorante, Joseph S.; Donello, John E.; Wheeler, Larry A.; Malone, Thomas
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 35 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 2005049287	A1	20050303	US 2004-928964		20040827
PRIORITY APPLN. INFO.:			US 2003-498900P	P	20030829

OTHER SOURCE(S): MARPAT 142:254638

IT **Sodium channel blockers**
(selective; treating chronic pain using selective antagonists of **persistent sodium current**)

L7 ANSWER 3 OF 12 MEDLINE on STN DUPLICATE 1
ACCESSION NUMBER: 2004102050 MEDLINE
DOCUMENT NUMBER: PubMed ID: 14736542
TITLE: Mechanisms by which SCN5A mutation N1325S causes cardiac arrhythmias and sudden death in vivo.
COMMENT: Comment in: Cardiovasc Res. 2004 Feb 1;61(2):206-7. PubMed ID: 14736536
AUTHOR: Tian Xiao-Li; Yong Sandro L; Wan Xiaoping; Wu Ling; Chung Mina K; Tchou Patrick J; Rosenbaum David S; Van Wagoner

David R; Kirsch Glenn E; Wang Qing
CORPORATE SOURCE: Department of Molecular Cardiology, Lerner Research Institute, The Cleveland Clinic Foundation, Department of Molecular Medicine, Cleveland Clinic Lerner College of Medicine of Case Western Reserve University, Cleveland, OH 44195, USA.
CONTRACT NUMBER: R01 66251
SOURCE: Cardiovascular research, (2004 Feb 1) 61 (2) 256-67.
Journal code: 0077427. ISSN: 0008-6363.
PUB. COUNTRY: Netherlands
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200405
ENTRY DATE: Entered STN: 20040303
Last Updated on STN: 20040521
Entered Medline: 20040520

AB . . . polymorphic ventricular tachycardia (VT) and fibrillation (VF), often resulting in sudden cardiac death (n=52:156). Arrhythmias were suppressed by mexiletine, a **sodium channel blocker** for the late **persistent sodium current.** Action potentials (APs) from TGM(NS31)L12 ventricular myocytes exhibited early afterdepolarizations and longer 90% AP durations (APD90=69 +/- 5.9 ms) than. . .

L7 ANSWER 4 OF 12 MEDLINE on STN DUPLICATE 2
ACCESSION NUMBER: 2003575560 MEDLINE
DOCUMENT NUMBER: PubMed ID: 14654377
TITLE: A novel mutation in SCN5A, delQKP 1507-1509, causing long QT syndrome: role of Q1507 residue in sodium channel inactivation.
AUTHOR: Keller Dagmar I; Acharfi Said; Delacretaz Etienne; Benammar Nawal; Rotter Martin; Pfammatter Jean Pierre; Fressart Veronique; Guicheney Pascale; Chahine Mohamed
CORPORATE SOURCE: Inserm U582, IFR No. 14, Pitie-Salpetriere Hospital, Paris, France.
SOURCE: Journal of molecular and cellular cardiology, (2003 Dec) 35 (12) 1513-21.
Journal code: 0262322. ISSN: 0022-2828.
PUB. COUNTRY: England: United Kingdom
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200407
ENTRY DATE: Entered STN: 20031216
Last Updated on STN: 20040801
Entered Medline: 20040730

AB . . . were expressed in the tsA201 human cell line and studied using the whole-cell configuration of the patch clamp technique. A **persistent** inward **sodium current** of 1-1.5% of maximum **currents** measured at -30 mV in all mutant **sodium channels** was recorded, which was nearly completely **blocked** by the **sodium-channel blockers** tetrodotoxin and lidocaine. The deletion mutants resulted in a significant shift of steady-state activation to more depolarized voltages. The delQ1507. . .

L7 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:177001 CAPLUS
DOCUMENT NUMBER: 139:66730
TITLE: Fast rhythmic bursting can be induced in layer 2/3 cortical neurons by enhancing persistent Na+ conductance or by blocking BK channels
AUTHOR(S): Traub, Roger D.; Buhl, Eberhard H.; Gloveli, Tengis; Whittington, Miles A.
CORPORATE SOURCE: Departments of Physiology and Pharmacology and

Neurology, State University of New York Health Science Center, Brooklyn, NY, 11203, USA
SOURCE: Journal of Neurophysiology (2003), 89(2), 909-921
CODEN: JONEA4; ISSN: 0022-3077
PUBLISHER: American Physiological Society
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT Electric **current**
(ionic, biol.; fast rhythmic bursting can be induced in layer 2/3 cortical neurons by enhancing **persistent sodium** conductance or by **blocking** calcium-dependent potassium **channels**)

L7 ANSWER 6 OF 12 MEDLINE on STN DUPLICATE 3
ACCESSION NUMBER: 2003396644 MEDLINE
DOCUMENT NUMBER: PubMed ID: 12724367
TITLE: Persistent sodium and calcium currents cause plateau potentials in motoneurons of chronic spinal rats.
AUTHOR: Li Yunru; Bennett David J
CORPORATE SOURCE: Centre for Neuroscience, University of Alberta, Edmonton, Canada.
SOURCE: Journal of neurophysiology, (2003 Aug) 90 (2) 857-69.
Electronic Publication: 2003-04-30.
Journal code: 0375404. ISSN: 0022-3077.
PUB. COUNTRY: United States
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200310
ENTRY DATE: Entered STN: 20030826
Last Updated on STN: 20031002
Entered Medline: 20031001

AB . . . and significantly reduced by 10 to 20 microM nimodipine or 400 microM Cd2+. The PIC that remained during a calcium **channel blockade** (in Cd2+) was completely and rapidly **blocked** by tetrodotoxin (TTX; 0.5 to 2 microM), and thus was a TTX-sensitive **persistent sodium current.** This persistent sodium current was activated rapidly about 7 mV below the spike threshold (spike threshold -46.1 +/- 4.5 mV),. . .

L7 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:657357 CAPLUS
DOCUMENT NUMBER: 139:33990
TITLE: Hypoxia and persistent sodium current
AUTHOR(S): Hammarstroem, Anna K. M.; Gage, Peter W.
CORPORATE SOURCE: John Curtin School of Medical Research, Canberra, 2601, Australia
SOURCE: European Biophysics Journal (2002), 31(5), 323-330
CODEN: EBJOE8; ISSN: 0175-7571
PUBLISHER: Springer-Verlag
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
REFERENCE COUNT: 77 THERE ARE 77 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

IT Heart
Human
Hypoxia
Sodium channel blockers
(effect of hypoxia on **persistent sodium current** and relevance for arrhythmias and irreversible cell damage)

L7 ANSWER 8 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

ACCESSION NUMBER: 2003:282065 BIOSIS
DOCUMENT NUMBER: PREV200300282065
TITLE: THE ROLE OF CALCIUM CURRENTS IN ACTION POTENTIAL BURSTING OF Ca1 PYRAMIDAL NEURONS UNDER PHYSIOLOGICAL ION CONDITIONS.
AUTHOR(S): Jarsky, T. M. [Reprint Author]; Metz, A. E. [Reprint Author]; Spruston, N. [Reprint Author]
CORPORATE SOURCE: Neurobiology and Physiology, Northwestern University Institute for Neuroscience, Evanston, IL, USA
SOURCE: Society for Neuroscience Abstract Viewer and Itinerary Planner, (2002) Vol. 2002, pp. Abstract No. 145.3. http://sfn.scholarone.com. cd-rom.
Meeting Info.: 32nd Annual Meeting of the Society for Neuroscience. Orlando, Florida, USA. November 02-07, 2002. Society for Neuroscience.
DOCUMENT TYPE: Conference; (Meeting)
Conference; (Meeting Poster)
Conference; Abstract; (Meeting Abstract)
LANGUAGE: English
ENTRY DATE: Entered STN: 19 Jun 2003
Last Updated on STN: 19 Jun 2003
AB. . . . to the ADP, which drives bursting. However, it has been reported that low concentrations of calcium cause upregulation of a **persistent sodium current** (Su et al. 2001) and that NiCl **blocks** a small fraction of **sodium channels** (Jung et al. 2001). To investigate whether sodium currents could also contribute to the ADP, we blocked a fraction of. . .

L7 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1999:166080 CAPLUS
DOCUMENT NUMBER: 130:332732
TITLE: Inhibition of transient and persistent Na+ current fractions by the new anticonvulsant topiramate
AUTHOR(S): Taverna, S.; Sancini, G.; Mantegazza, M.; Franceschetti, S.; Avanzini, G.
CORPORATE SOURCE: Istituto Neurologico C. Besta, Milan, Italy
SOURCE: Journal of Pharmacology and Experimental Therapeutics (1999), 288(3), 960-968
CODEN: JPETAB; ISSN: 0022-3565
PUBLISHER: American Society for Pharmacology and Experimental Therapeutics
DOCUMENT TYPE: Journal
LANGUAGE: English
REFERENCE COUNT: 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
IT Ion **channel blockers**
(**sodium**; inhibition of transient and **persistent** Na+ **current** fractions by new anticonvulsant topiramate)

L7 ANSWER 10 OF 12 MEDLINE on STN DUPLICATE 4
ACCESSION NUMBER: 1999310287 MEDLINE
DOCUMENT NUMBER: PubMed ID: 10382914
TITLE: Effect of mexiletine on sea anemone toxin-induced non-inactivating sodium channels of rat skeletal muscle: a model of sodium channel myotonia.
AUTHOR: Desaphy J F; Camerino D C; Tortorella V; De Luca A
CORPORATE SOURCE: Dipartimento Farmacobiologico, Facolta di Farmacia, Bari, Italy.
SOURCE: Neuromuscular disorders : NMD, (1999 May) 9 (3) 182-9.
Journal code: 9111470. ISSN: 0960-8966.
PUB. COUNTRY: ENGLAND: United Kingdom
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199908

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	0	adorante-joseph.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/03 09:16
S2	0	ehring-george.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/02/10 14:36
S3	1	donello-john.in.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/02/10 14:37
S4	2	sodium same channel same blocker same fluor$7 same optic$8 same potent$7	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/02/10 14:38
S5	13	(sodium same channel same blocker)and (fluor$7 same optic$8 same potent$7)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/02/10 14:39
S6	450	voltage same sensitive same dye	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/02/10 15:10
S7	125	(voltage same sensitive same dye) and (sodium same channel)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/02/10 15:11
S8	40	(voltage same sensitive same dye) and (sodium same channel) and (antagonist) and (method same identific$8)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/02/10 15:23
S9	75	(voltage same sensitive same dye) and (sodium same channel) and (antagonist)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/09/08 11:42
S10	2	WO adj "9641166"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/02/10 16:01
S11	2	"5981268".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/02/11 14:39
S12	0	(voltage same sensitive same dye) and (sodium same channel) and (antagonist) and ouabain	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/02/12 09:30

S13	60	(sodium same channel) and (antagonist) and ouabain	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/02/12 09:31
S14	13	(sodium same channel) and (antagonist) and ouabain and pump and identifica$8	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/02/12 09:31
S15	13	(voltage same sensitive same dye) and (transient same sodium same current) and (blocker)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/09/08 11:42
S16	0	sodium same current same persistant	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 09:48
S17	130	sodium same current same transient	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 10:02
S18	1	sodium same channel same persistant	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 10:07
S19	0	sodium same current same persistant	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 10:07
S20	8	(sodium same current) and persistant	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 10:09
S21	13	(sodium same channel) and persistant	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/03/09 10:09
S22	21	(sodium same free same buffer) and (voltage same sensitive same dye) and (sodium same channel)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/07/27 15:16
S23	0	(sodium same free same buffer same potassium same channel same fluores$8 same persistant) and screen	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/03 09:17
S24	0	(sodium same free same buffer) and (potassium same channel) and fluores$8 and persistant	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/03 09:18

S25	292	(sodium same free same buffer) and (potassium same channel) and fluores$8	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/03 09:18
S26	33	(sodium same free same buffer) and (potassium same channel) and (fluores$8) and (voltage same sensit$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/08/03 09:18